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Federal-State Cooperative
Snow Surveys and Water Supply Forecasts
for

## WYOMING

SOIL CONSERVATION SERVICE
UNITED STATES DEPARTMENT OF AGRICULTURE
AND
STATE ENGINEER OF WYOMING

Data included in this report were obtained by the agencies named above in cooperation with the U.S. Forest Service, Bureau of Reclamation, National Park Service, and other Federal, State and local organizations.

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## UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY AND WATER SUPPLY FORECAST REPORTS:

Forecasts by U. S. Weather Bureau of total annual streamflow October-September, inclusive, at more than 300 gaging stations are issued monthly January through May in the publication WATER SUPPLY FORECASTS FOR THE WESTERN UNITED STATES.

Weather Bureau forecasts of runoff presented in that bulletin are computed from procedures based on mathematical analysis of the relation between precipitation and runoff.

The Weather Bureau bulletins may be secured by writing to:

Hydrblogist in Charge River Forecast Center U. S. Weather Bureau 712 Federal Office Building Kansas City 6, Missouri

For current information on local river and flood conditions, reference should be made to the appropriate Rivef District Office, listed below:

Meteorologist in Charge......Yellowstone River
Weather Bureau Airport Station and tributaries
Box 1338
Billings, Montana

State of Wyoming

# FEDERAL-STATE COOPERATIVE SNOW SURVEYS AND WATER FORECASTS

FOR

WYOMING

Issued February 1, 1955

Report Prepared by George W. Peak Snow Survey Leader

Soil Conservation Service and State of Wyoming

P. O. Box 699
Casper, Wyoming

Issued by

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L. C. Bishop
State Engineer of Wyoming
Cheyenne, Wyoming

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#### PRELIMINARY WATER SUPPLY OUTLOOK

FOR

WYOMING

February 1, 1955

The February 1 accumulation of water in the Wyoming snow pack is ranging from 40 per cent of normal in the Wind River network to 76 per cent in the North Platte Basin.

The water supply prospects for this state are rather poor.

The soil throughout Wyoming entered the winter with considerably less moisture than is normally had, however, the soil deficit was not as low as the previous year. The figures given here are in percentages of the average of past years of record for February 1 snow surveys, and will improve if normal conditions exist from now on.

The Snake River Basin, west of the divide, and Yellowstone Park are 60 per cent of the February 1 average. Storage in Jackson Lake is about 80 per cent of normal.

The Wind River Basin above Boysen is 40 per cent of that which is expected by the first of February. In most cases the snow surveys were made just ahead of the storm that crossed the state on February 3 and 4, so the picture would be a little improved if this data were included.

(Cont'd)



The western areas of the Big Horn drainage below Boysen Reservoir have less than half the normal accumulation for this time of year. The west flank of the Big Horn mountains is somewhat improved, with a few snow courses up to 72 per cent.

The Tongue and Powder River Basins are also considerably below normal, indicating a runoff of 50 per cent and 60 per cent of average, even though normal conditions exist until the runoff occurs.

The North Platte and Laramie River Watersheds are showing a great deal of improvement over the existing conditions on January 1. These basins have an accumulation of 75 per cent of the average February 1 snow pack, however, the Sweetwater country is down to 53 per cent.

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COMPARISON OF SNOW COVER WITH THAT OF PREVIOUS YEARS
Summary of Snow Survey Data by Watersheds as of February 1, 1955

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BASIN	NO. OF COURSES	YEARS OF		SNOW WATER EX AS PERCENTAGE	OF
	AVERAGED	RECORD	1954	1953	Average
Snake River Basin Above Jackson Lake	11	8–35	53%	52%	61%
Jackson Lake to Heise	14	4-20	58%	5 <b>7</b> %	60%
Upper Yellowstone In Yellowstone Park	6	4-13	53%	68%	56%
Madison River In Yellowstone Park	2	2-17	57%	75%	64%
Lower Yellowstone - Shoshone River	2	6-8	39%	48%	36%
Lower Yellowstone - Wind River	14	5-19	44%	45%	39%
Lower Yellowstone - Popo Agie River	6	6-14	44%	55%	43%
Lower Yellowstone - Owl Creek	2	6	42%	59%	51%
Lower Yellowstone - Greybull River	1	2	20%	40%	27%
Lower Yellowstone - Tongue River	2	4-5	57%	87%	72%
Lower Yellowstone - Shell Creek	11	5	48%	91%	74%
Lower Yellowstone - Clear Creek On The	Powder R	iver			
	1	4	93%	81%	57%
North Platte Above Seminoe Reservoir	14	3-19	110%	103%	76%
North Platte - Sweetwater River	2	13	49%	59%	53%
Laramie River Basin	9	618	115%	80%	75%
Pole Mountain	11.	18	161%	121%	100%
North Laramie Mountains	2	5.46	112%	82%	86%
Missouri - Cheyenne River	1	11	115%	94%	102%

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DRAINAGE BASIN			Date	Snow		F	ast Re	corc	Years
and SNOW COURSE	C# -# -		of	Dept	h Content	Water	Conte	nt(In,	) of
	State	Elev.	Surve	y (In.	) (In.)	1954	1953	Ave.	Recor
SNAKE RIVER BASIN AB	OVE JACKS	SON LAKE	; ***						
A == 2 == =			•						
Arizona Astor Creek	Wyo.	6850	1/31	29	7.3	12.9	13.8	11.3	35
Base Camp*	Wyo.	7700 6900	1/30	40	10.7	23.4	24.5	19.0	35
Coulter Creek	₩уо. ™уо.	7600	2/1 1/29	29	6.7	14.8	14.8	13.5	8
Gla de Creek	™yo.	7200	1/30	37 36	10.1 9.3	16.8	17.5	14.2	35
Huckleberry Divide	Tyo.	7300	1/31	34	8.5	15.3 12.6	16.8 15.1	14.6	35
Lewis Lake Divide Moran	Wyo.	7900	1/30	53	16.6	31.9	31.2	26.3	35 35
Moran Bay	Wyo.	6800	2/1	24	4.7	10.4	10.6	7.7	35
Snake River Station	Wyo. Wyo.	6800 6780	1/31	31	7.3	14.5	16.7	12.9	35
Thumb Divide	'.yo.	7900	1/31 1/30	34 35	8.9	14.4	14.7	12.7	35
	<i>v</i> -	1,00	1/30	))	8.2	17.3	14.8	17.6	8
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JACKSON LAKE TO HEISI	<u>.</u>								
Afton Ranger Station	Wyo.	6200	7 /27	7.)	0 0				
Base Camp ***	Wyo.	6900	1/31 2/1	14 29	2.8 6.7	3.3	3.4	3.9	19
Blackrock	Ψyο.	8600	1/31	36	7.8	14.8 15.7	14.8	13.5 14.3	8
Blind Bull Summit Bryan Flat	Tyo.	8750	-, > <u>-</u>		7	1701	T4 & C	T4.)	19
CCC Camp	Wyo. Wyo.	6250	1/31	15	3.0	7.7	8.0	6.7	19
Cottonwood Lake	Wyo.	7500 7500	1/28	24	5.0	7.9	8.8	7.7	19
Deadman Ranch	Wyo.	6534							
East Rim Divide	Wyo.	7950	1/31	17	3.5				
Four Mile Meadows Grossy Lake*	Wyo.	7770	1/31	25	5.3	9.6	8.8	8.8	20
Greys Boundary	Wyo. Wyo.	7265	1/30	59	16.4	22.4	25.6	20.2	<b>1</b> 5
Gros Ventre Summit	Wyo.	5800 8750	1/31	23	5.5	9.0	9.9	7.6	19
Grover Park Divide	Wyo.	7500	1/31	21	1 0	, ,	0 0		
Poison Meadows	Wyo.	8500	1/ )1	21	4.9	6.6	8.8	7.6	19
Salt River Summit	Wyo.	7900	1/28	25	5.1	13.4	10.8	12.3	6
Snow King Mountain Teton Pass No. 2	Wyo.	7600	1/31	20	4.0	7.1	NR	8.6	4
Togwotee Pass	Wyo.	8500 9600	1/31	52		20.7	24.9	24.6	10
Turpin Meadows	₩уо <b>.</b>	6930	1/31 1/31	47		21.1	18.7	19.9	19
Yellow Jacket	₩yo.	7675	T/ )T	21	3.9	7.9	8.4	7.7	19

<sup>\*</sup> Adjacent Basin
\*\* Provisional Average for Snake River Stations

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## WYOMING SNOW SURVEYS, FEBRUARY 1, 1955

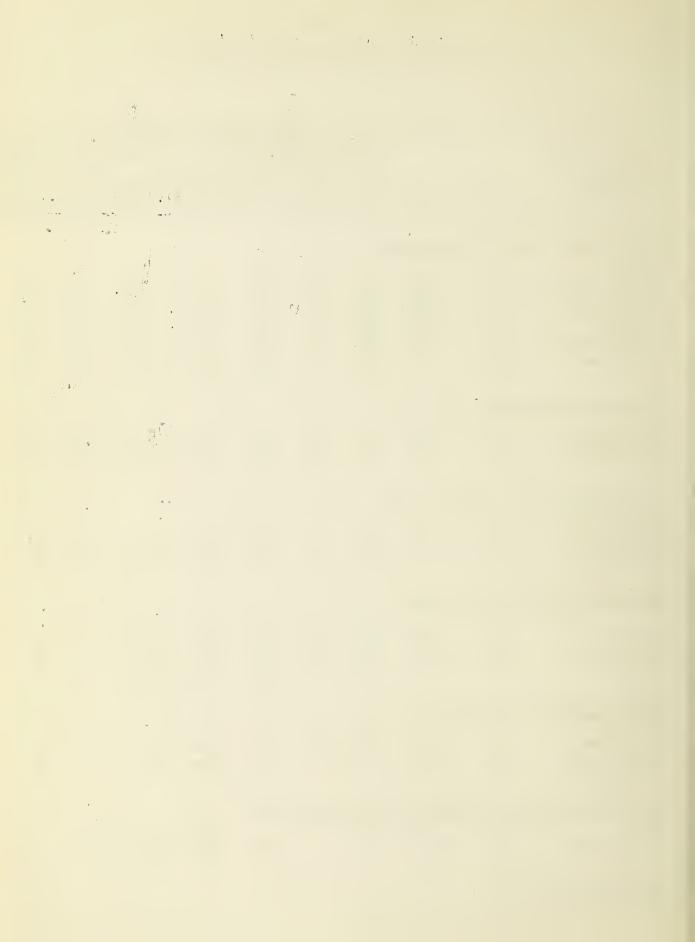
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DRAINAGE BASIN			Date	1955 Snow	Water		Past Red	cord	Years
and SNOT COURSE	State	Elev.	of Survey	Depth (In.)	Content (In.)	Water 1954	Content 1953	Aver.	of Record
UPPER YELLOWSTONE	IN YELLO	WSTONE	PARE						
Canyon Cooke City Crevice Mountain	Wyo. Mont. Mont.	7750 7400 8400	1/30 2/2	34 20	7.8 3.4	11.5	8.9 5.7	10.4	9
Lake Camp Lupine Creek Sylvan Pass Thumb Divide	Wyo. Wyo.	7850 7300 7100 7900	2/1 1/31 2/2 1/30	21 27 27 35	3.2 6.1 4.1 8.2	7.4 7.8 9.5 17.3	5.7 5.3 7.8 14.8	7.5 6.5 10.1 17.6	10 13 8 4
MADISON RIVER IN	Ü		• -	3,			, -		·
Norris Basin West Ye <b>lld</b> wstone	Wyo. Mont.	7500 6700	2/l 2/2	23 23	4.5 5.3	8.9	6.3 6.8	7.6 7.8	2 17
LOWER YELLOWSTONE	- SHOSHO	NE RIV	ER						
East Entrance Sylvan Pass	Wyo.	7000 7100	2/2 2/2	21 26	2.9 4.1	8.3 9.5	6.7 7.8	9.1 10.1	6 8
LOWER YELLOWSTONE	- WIND F	RIVER							
Brooks Lake Burroughs Creek Dinwoody Dry Creek DuNoir Geyser Creek Hobbs Park Little Warm Mosquito R.S. St. Lawrence R.S. Sheridan R.S. T-Cross Ranch Togwotee Pass Trout Creek	Wyo. Wyo. Wyo. Wyo. Wyo. Wyo. Wyo. Wyo.	9200 8800 10000 9500 8750 8500 10000 9500 9500 9000 7500 8000 9600 8400	1/24 1/26 1/22 1/25 1/25 1/30 1/25 1/30 1/31 1/24 1/36 1/31	41 19 15 8 10 10 19 25 11 6 14 11 47	9.7 4.4 2.8 1.7 1.0 1.4 4.5 5.0 2.0 1.3 2.2 2.2 21.6 0.8	15.3 11.0 5.5 5.5 12.3 11.1 5.7 5.2 21.1 2	15.6 11.5 7.1 3.7 5.2 4.9 8.9 10.3 4.8 4.1 6.5 6.3 18.7	16.9 12.5 9.7 5.0 6.5 6.3 13.5 14.4 6.4 4.9 5.7 5.2 19.9 3.8	14 6 6 6 13 6 5 11 11 13 14 19 6

<sup>\*</sup>Adjacent Basin

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DRAINAGE BASIN			Date	Snow	Water	L   1 7 L	0 . 1	· / \	
	STATE	Elev.		Ueptn (Tn.)					
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LOWER YELLOUSTONE	- POPO A	4							
Rlue Ridge	Jolano	9500	2/1	7 },	310	8 8	6 1	ЯΊ	7 ).
and of Depth Content Water Content (In.) of									
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LOVER YELLOWSTONE	- OWL CR	ESK							
Beavers Mill	Wyo.	8900	2/4	21	3.8	6.4	5.3	5.5	6
Owl Creek	Wyo.	8700		11				4.3	6
LOWER YELLOWSTONE	- GREYBU	LL RIVE	ER						
	Wyo.			5	0.9	One disp		en es	siè
Wood River	Wyo.	8000	1/31	6	1.0	4.9	2.5	3.7	2
LOWER YELLOWSTONE	- TONGUE	RIVER							
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LOWER YELLOWS TONE	- SHELL	CREFK							
Dome Take*	Marc	8800	1/28	10	3 1	6 h	3 1.	1, 2	2
DRAINAGE BASIN and cof Depth Content Water Content (In.) Years and SHOW GOURSE STATE Flev. Survey (In.) 1954 1953 Aver. Record Int. (In.) 1954 1953 Aver. Record (In.) 1953 Aver. Record (In.) 1954 1953 Aver. Record (In.) 1953 Aver. Record (In.) 1954									
LOWER YELLOWS TONE	- CLEAR	CREEK C	N THE P	OUDER F	RIVER	j			
Soldier Park	Wyo.	8700	1/29	7	1.3	1.4	1.6	2.3	11
Sour Dough			,		•	<b>GB</b> 445	glif en	as ev	***

<sup>\*</sup> Adjacent Basin



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DRAINAGE BASIN			Date	Snow	Water	· · · · · · · · · · · · · · · · · · ·	1000 10	0001 a	Years
and			of	Depth	Content	Water	Content	(In.)	$\circ f$
SNOW COURSE	STATE	Elev.	Survey	(In.)	(In.)	1951	1953	Aver.	Record
NORTH PLATTE ABOVE	SEMINO	E RESERI	JOIR						
	The second secon								
Albany*	Wyo.	9400	1/29	30	5.4	6.0	8.0	9.7	6
Bottle Creek	Wyo.	8200	1/26	30	6.2	6.9	6.6	8.2	17
Comeron Pass	Colo.	10300	2/5	33	9.7	8.9	8.5	11.9	16
Columbine Lodge Fox Park*	Colo. Wyo.	9300 9200	1/28 1/31	61 18	14.1 3.4	8.9 1.7	15.3 4.4	14.0 5.0	19 <b>1</b> 8
North Barrett Cree		9400	1/28	58	8.9	8.7	9.0	11.2	17
North Gate	Colo.	8500	1/31	16	2.3	2.0	2.5	3.6	5
North French Creek		10200	1/31	57	12.8	14.8	12.2	16.3	1.7
Old Battle	Wyo.	9800	1/26	61	13.5	12.5	13.7	18.4	17
Park View	Colo.	9200	1/31	20	3.3	3.8	5.3	6.95	
Ryan Park	Myo.	8400	1/31	34	6.4	7-7	4.2	6.5	17
Spring Creek	Wyo.	9000	1/28	<b>28</b> 0	7.0	5.6	8 2	10.9	17
Webber Spring Willow Creek Pass*	Wyo.	9000 9500	1/26 <b>1</b> /31	38 27	8 <b>.1</b> 5 <b>.</b> 6	7.8 5.2	8.2 6.1	10.4 7.8	17 15
WILLOW Oreek rassw	COTO.	7500	#/ JT	۷ ا	<i>)</i> • ∪	7.6	Oal	1.0	1)
NORTH PLATTE - SWE	ETJATER	RIVER							
70 1 1 7		0=00							
Dutch Joe*	Wyo.	8700 8800	2/1	24	١. ٢	0.7	8.2	9.6	7 2
Grannier Meadows Larson Creek	Wyo.	9000	2/1	24	4.5	9.7	O <sub>Q</sub> Z	9,0	13
South Pass	Wyo.	9040	2/1	22	5.5	10.6	8.8	9.4	13
	,	7040	-/ -		707	2000		<i>y</i> • • • • • • • • • • • • • • • • • • •	
NORTH PLATTE - LAR	AMIE RI	VER							
Albany	Wyo.	9400	1/29	30	5.4	6.0	8.0	9.7	6
Brooklyn Lake	Wyo.	10200	1/31	41	11.3	8.6	12.8	13.3	17
Deadman Hill	Colo.	10200	2/5	24	5.7	6.1	5.0	7.0	11
Fox Park	Wyo.	9200	1/31	18	3.4	1.7	4.4	5.0	18
Hairpin Turn	Wyo.	9500	1/31	19	4.5	3.7	6.6	6.8	17
LaBonte	Wyo.	8450	1/26	19	3.8	3.4	4.6	4.4	6
Libby Lodge	Wyo.	8700	1/31	18.	4.5	3.6	5.7	5.7	17
McIntyre Pole Mountain #2*	Colo. Wyo.	9100 8700	1/28	19	2.9	1.8	2.4	2.9	18
Roach	Colo.	9800	2/5	35	8.2	9.5	C 6 Ll	10.5	13
	0020	,000	-/ /			/ 4/			
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PLATTE - POLE MOUN	TAIN								
Pole Mountain	Wyo.	8700	1/28	19	2.9	1.8	2.4	2.9	18

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## WYOMING SNOW SURVEYS, FEBRUARY 1, 1955

				SN	OW COVER	MEASURI	EMENTS		
				1955			Past	Record	
DRAINAGE BASIN			Date	Snow	Water				Year
and			of	Depth	Content		Content	(In.)	of
SNOW COURSE	STATE	Elev.	Survey	(In.)	(In.)	1954	1953	Aver.	Recor
NORTH PLATTE - NO	RTH LARAM	IE MON	NTAINS		i				
Box Elder LaBonte	Wyo.	9000 8450	1/26	19	N.R. 3.8	3.1 3.4	4.6	2.7 4.4	5
MISSOURI CHEYENN	E RIVER								
Upper Spearfish	S. Dak.	6500	1/27	25	4.6	4.0	4.9	4.5	11

		ECIPITATI of Norm			
Basin	Jan.	Febr.	Mar.	Apr.	DENGEROUS .
Wind River Shoshone River Big Horn River Powder River North Platte Laramie River	25% 15% 25% 60% 100% 90%				

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#### STATUS OF RESERVOIR STORAGE Wyoming and South Dakota February 1, 1955

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BASIN and		USABLE	Active Storage -1000s Acre Feet				
STREAM	חדים שורים שורים	CAPACITY	2000	2			10 Yr.Av
Dilwan	RESERVOIR	1000s AF	1955	1954	1953	1952	1943-52
Snake River	Jackson	847.0	416.8	342	388	690	534.7
North Platte North Platte	Seminoe* Pathfinder*	957.0 1011.0	273.4 420.1	196.6 808.9	620.0 739.2	681.4 699.2	447.1
North Platte	Alcova**	190.5	171.4	166.9	155.1	158.8	95.4
North Platte	Alcova**	24.5	5.4	0.9	-//-		72.4
North Platte	Guernsey	39.8	11.8	36.9	41.8	24.7	36.3
North Platte	Southerland	185.0	42.6	48.6	63.0	58.8	50.7
North Platte North Platte	Kingsley Lake Alice &	1995.0	1120.8	1485.0		1885.0	1275.5
	Minatare	68.0	14.4	Made et cas	date deta	(9879-685)	6400 (1889)
Kansas Basin Kansas Basin Kansas Basin	Box Butte Bonny Swanson Lake	31.6 39.9 116.1	N.R. 37.4	14.6 37.8	17.1 26.0	24.3 30.1	19.2 18.5
Kansas Basin	Enders	36.0	29.3 42.5	9.7 28.9	23.6	26.7	
Kansas Basin	Harry Sturnk	33.9	30.9	29.1	33.5	36.7	20.0
Kansas Basin	Harlan County	252.9	164.0	30.3	22.07	32.1	23.6
Kansas Basin	Cedar Bluff	176.8	95.0	101.2	113.6	173.8	173.8
Laramie River	Wheatland	95.0	1.2	7.8	24.0	52.0	35.4
Belle Fourche	Belle Fourche	185.2	51.5	97.1	43.5	72.0	106.3
Shoshone River	Buffalo Bill	439.8	145.8	156.7	158.4	266.4	302.5
Wind River Wind River	Boysen Pilot Butte	758.0 31.6	339.6	337.7	580.2	92.4	با 92
Wind River	Bull Lake	152.0	9.2 66.3	8.9 84.9	9.0 66.9	6.5 74.7	12.5 69.5
Cheyenne River	Angostura	92.0	31.9	30.0	43.2	52.0	52.0
Cheyenne River	Deerfield	15.1	10.2	14.5	13.1	14.6	12.8
Cheyenne River	Keyhole	190.3	9.0	8.6	8.2	man early	460 0,100
Grand River	Shadehill	84.0	76.1	80.5	76.2		en-an
Green River	Big Sandy	38.3	8.9	3.3	6128 SQSQ		ever dans

<sup>\*</sup> Seminoe, January 1943, August 1953, Useable Capacity 993,200 Acre Feet. \* Pathfinder, January 1943, August 1953, Useable Capacity 1,040,500 Acre Feet. \*\* Alcova, downstream from Seminoe and Pathfinder and containing 166,000 Acre Feet of inactive storage that is unavailable to the Kendrick Project. \*\*\*Some for less.

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The data included in this report were obtained by the Soil Conservation Service in cooperation with the agencies named below:

#### STATE

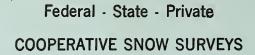
State Engineer of Wyoming

### FEDERAL

- U. S. Department of Agriculture Forest Service
- U. S. Department of Commerce Weather Bureau
- U. S. Department of the Interior Bureau of Reclamation National Park Service Geological Survey

### PRIVATE

Wheatland Irrigation District



Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"WATER IS THE WEST'S GREATEST RESOURCE"